CATERPILLAR

Service Manual

336D LN EXCAVATOR

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Product: EXCAVATOR
Model: 336D LN EXCAVATOR MYG
Configuration: 336D L & 336D LN Excavators MYG00001-UP (MACHINE) POWERED BY C9 Engine

Disassembly and Assembly
330D, 336D, 336D2, 340D and 340D2 Excavators and 336D MHPU Mobile Hydraulic Power Unit C9 Engine Supplement

Media Number -RENR8647-16 **Publication Date -01/10/2015** **Date Updated -26/10/2015**

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Hydraulic System Pressure - Release

SMCS - 1024-012

WARNING

Personal injury can result from hydraulic oil pressure and hot oil.

Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.

Make sure all of the work tools have been lowered to the ground, and the oil is cool before performing any service. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.

The release of hydraulic pressure in a hydraulic circuit is required before service is performed to that hydraulic circuit. Release the pressure in the hydraulic circuits before any hydraulic lines are disconnected or removed from that hydraulic circuit.

Reference: Refer to the Operation and Maintenance Manual, "System Pressure Release" for the detailed procedure to release the system pressure.

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Engine and Main Hydraulic Pump - Install

SMCS - 1024-012

Installation Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
A	1U-9200	Lever Puller Hoist	1
B	180-3034	Repair Stand Set	3
C	180-3033	Repair Stand Set	2
D	138-7575	Link Bracket	3

Note: Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.

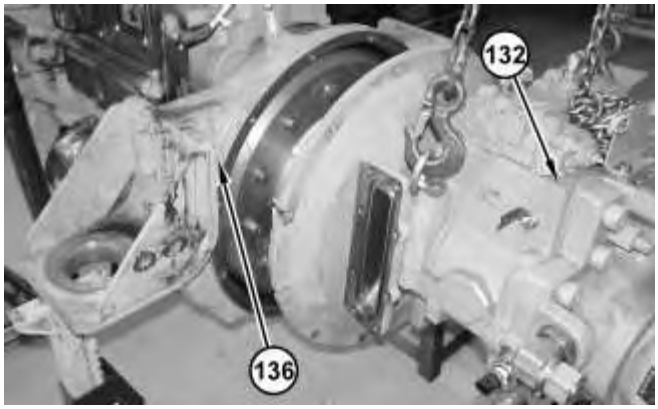

Illustration 1 g01212250

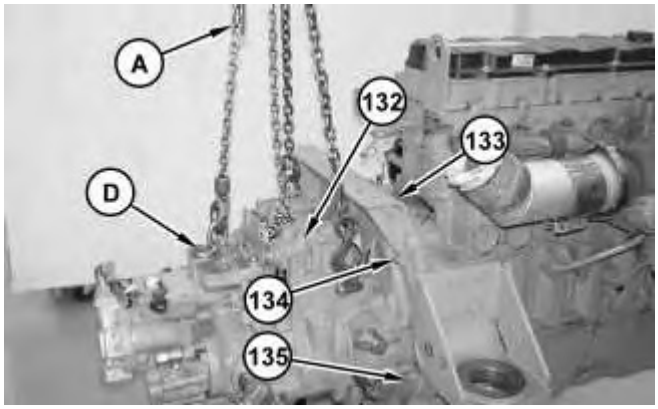

Illustration 2 g01212249

1. Use Tooling (A), Tooling (D), and a suitable lifting device in order to connect main hydraulic pump (132) to engine (81). The weight of main hydraulic pump (132) is approximately 227 kg (500 lb).
2. Install bolts (135), bracket (133) and bolts (134).

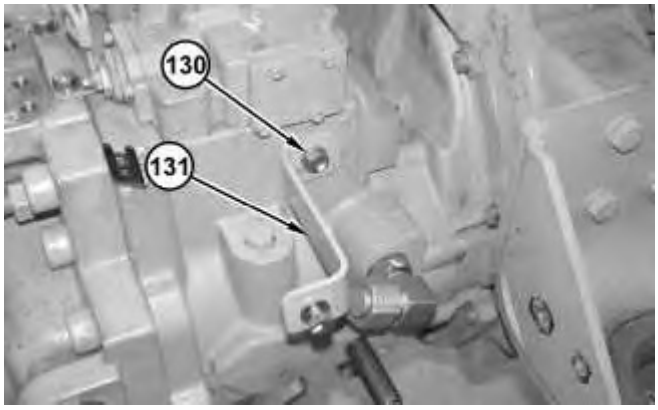

Illustration 3 g01212248

3. Install bracket (131) and bolt (130).

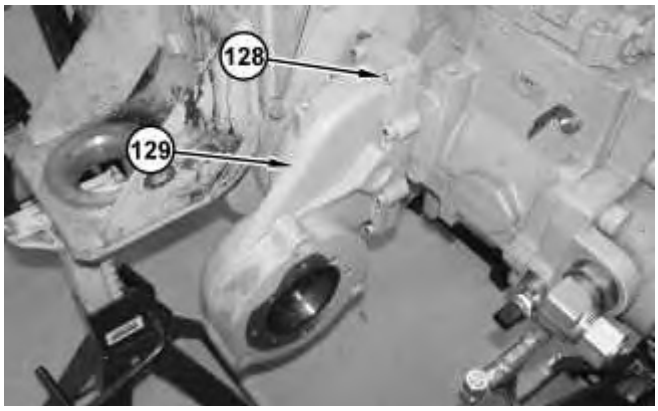

Illustration 4 g01212247

4. Install the O-ring seal, auxiliary pump drive (129), and bolts (128).

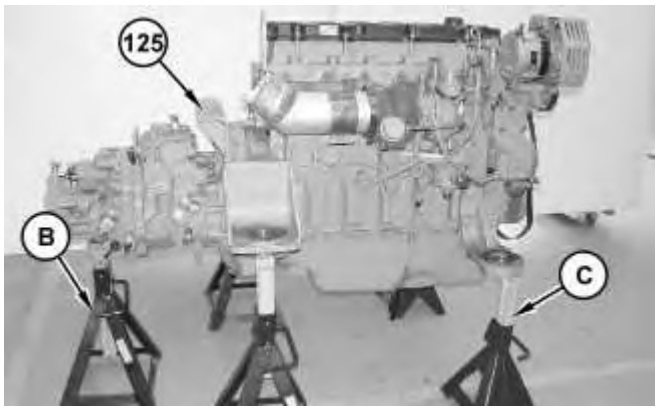

Illustration 5 g01212246

Illustration 6 g01212245

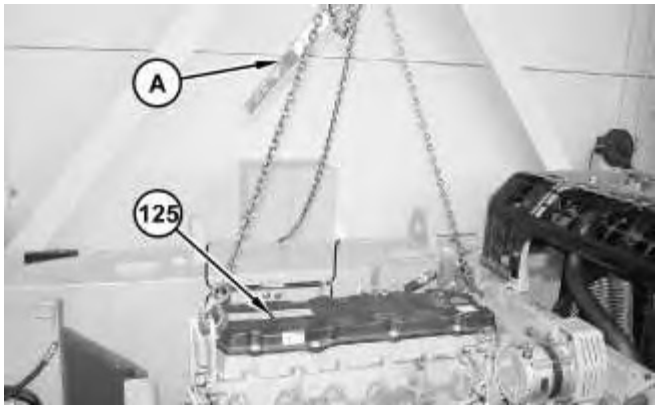

Illustration 7 g01212242

5. Use Tooling (A) and a suitable lifting device to remove the engine and main hydraulic pump (125) from Tooling (B) and Tooling (C) and position the engine and main hydraulic pump (125) on the machine. The weight of the engine and main hydraulic pump (125) is approximately 1588 kg (3500 lb).

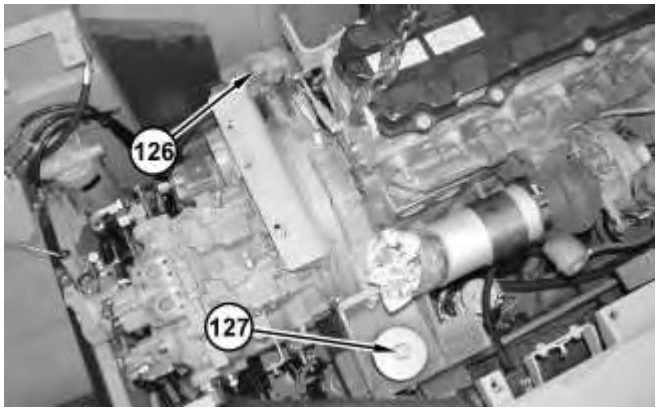

Illustration 8 g01212244

6. Install engine mounting bolts (126) and (127). Repeat this Step for the other side.

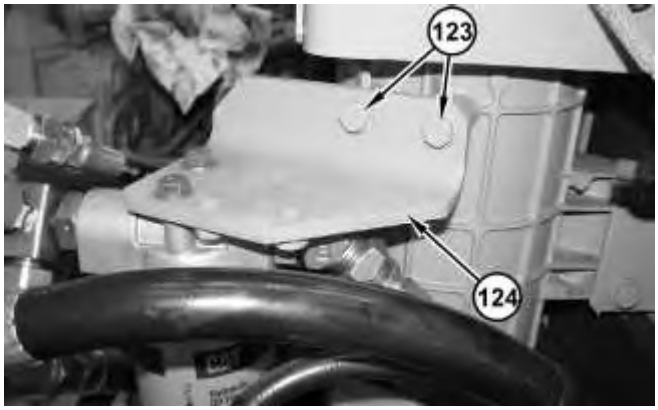

Illustration 9 g01212241

7. Install bracket assembly (124) and bolts (123).

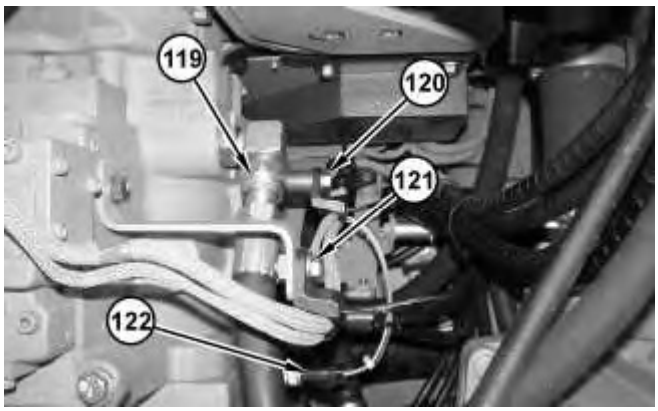

Illustration 10 g01212240

8. Install clips (120) and (121).
9. Disconnect harness assembly (122).
10. Connect hose assembly (119).

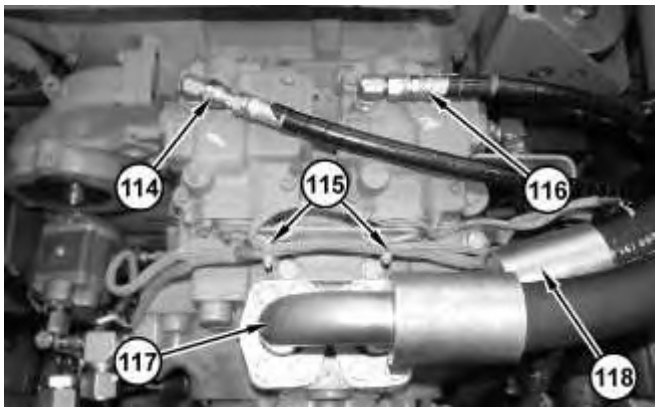

Illustration 11 g01212239

11. Install cable straps (115).
12. Connect hose assemblies (114), (116), (117), and (118).

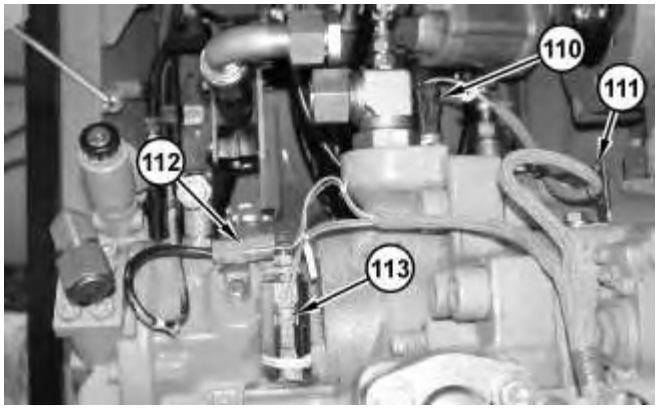

Illustration 12 g01212238

13. Connect harness assemblies (110), (112), and (113).
14. Install cable strap (111).

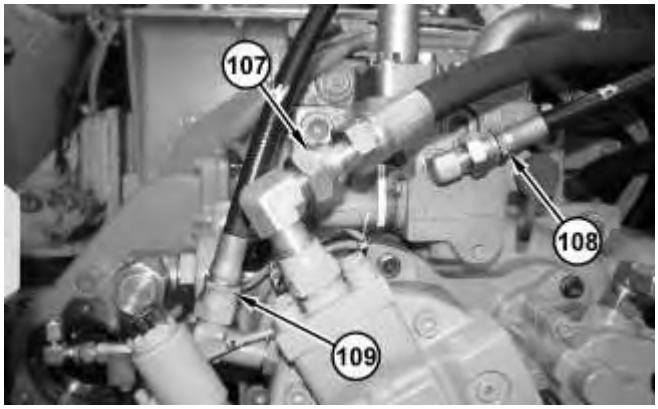

Illustration 13 g01212237

15. Connect hose assemblies (107), (108), and (109).

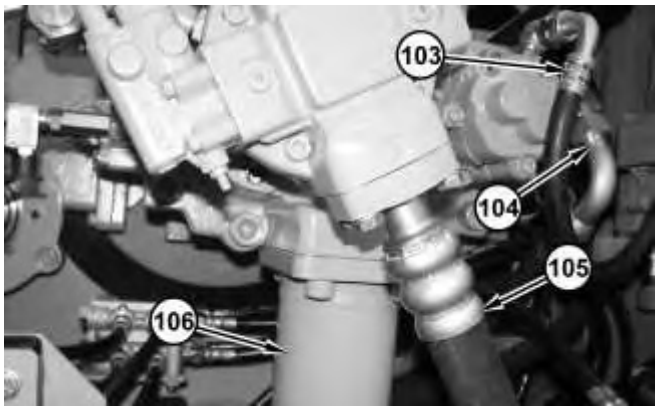

Illustration 14 g01212236

16. Connect tube assembly (106).
17. Connect hose assemblies (103), (104), and (105).

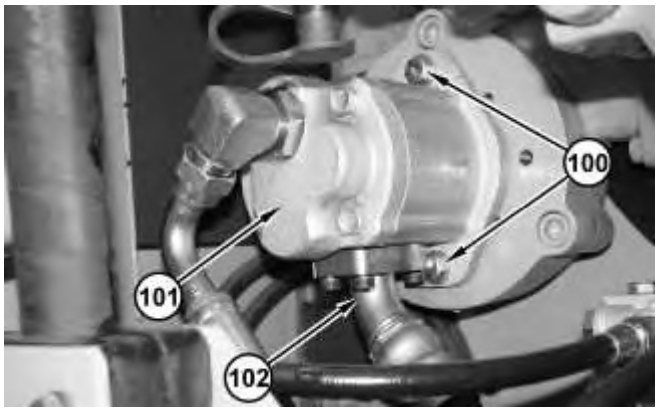

Illustration 15 g01212235

18. Reposition auxiliary gear pump (101) and install bolts (100).
19. Connect hose assembly (102).

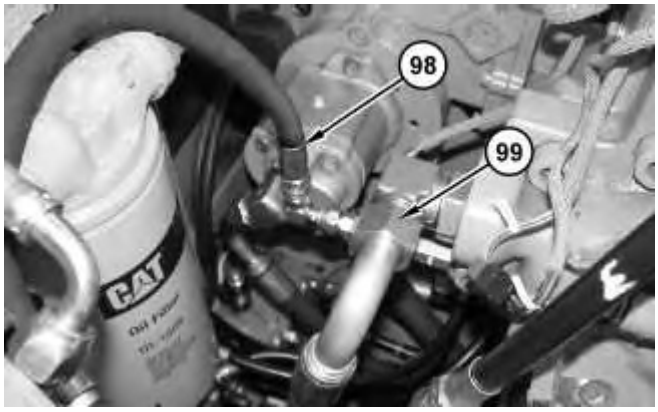

Illustration 16 g01212234

20. Connect hose assemblies (98), and (99).

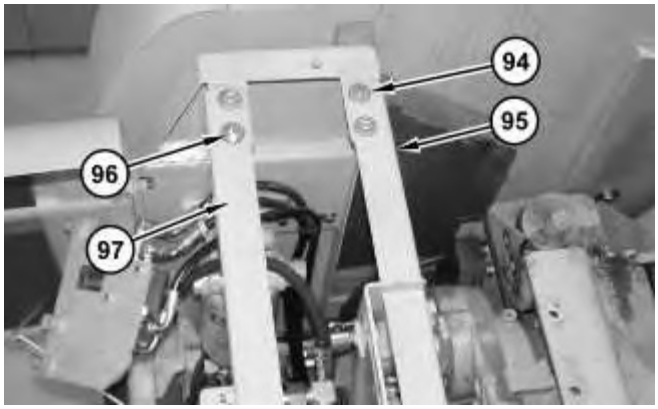

Illustration 17 g01212233

21. Install bracket (95) and bolts (94).
22. Install bracket (97) and bolts (96).

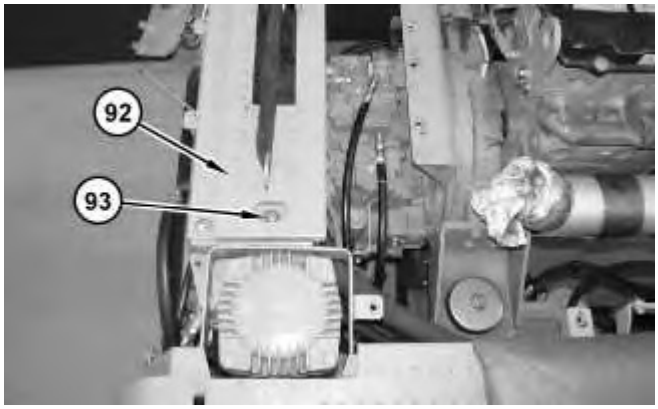

Illustration 18 g01212232

23. Install cover (92) and bolts (93).

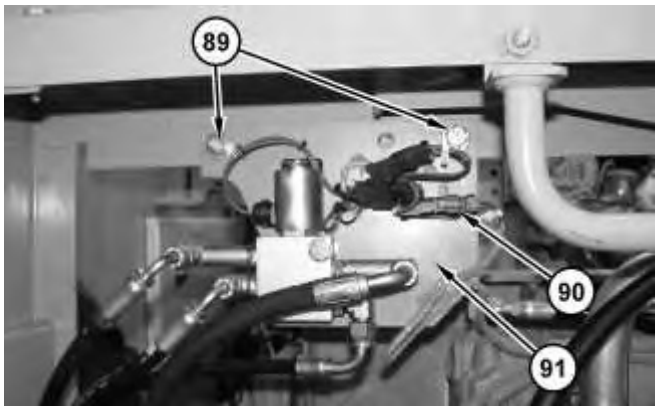

Illustration 19 g01212231

24. Reposition bracket assembly (91) and install bolts (89).
25. Connect harness assembly (90).

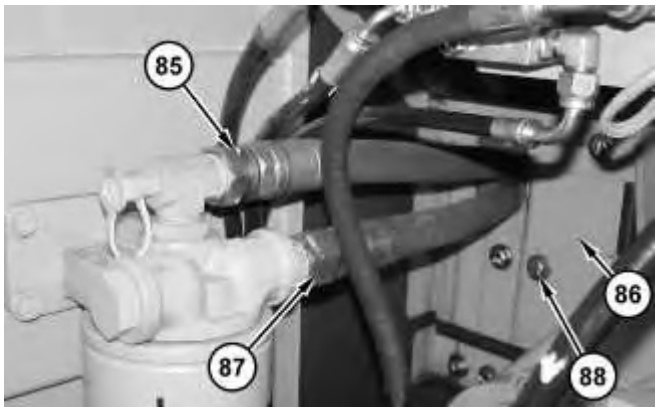

Illustration 20 g01212230

26. Install panel (86) and bolts (88).
27. Pull hose assemblies (85) and (87) through panel (86).
28. Connect hose assemblies (85) and (87).

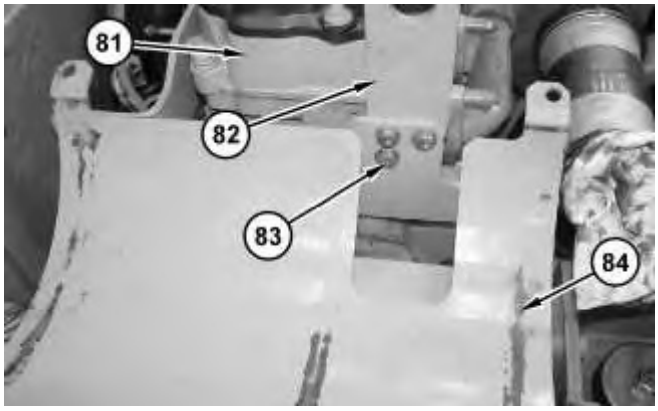

Illustration 21 g01212229

29. Remove bolts (83) and engine lifting bracket (82) from engine (81).
30. Reinstall muffler support (84), lifting bracket (82), and bolts (83) to engine (81).

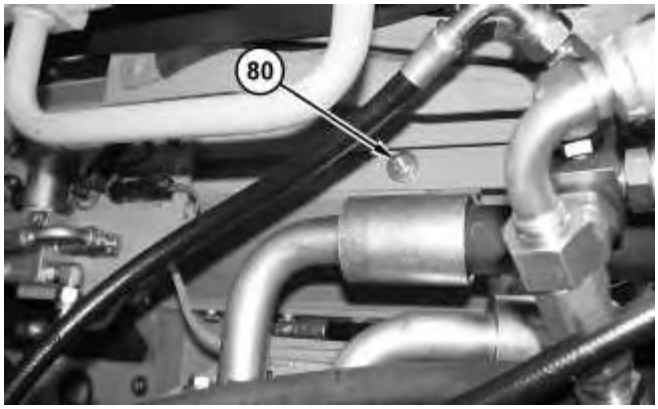

Illustration 22 g01212228

31. Install bolts (80).

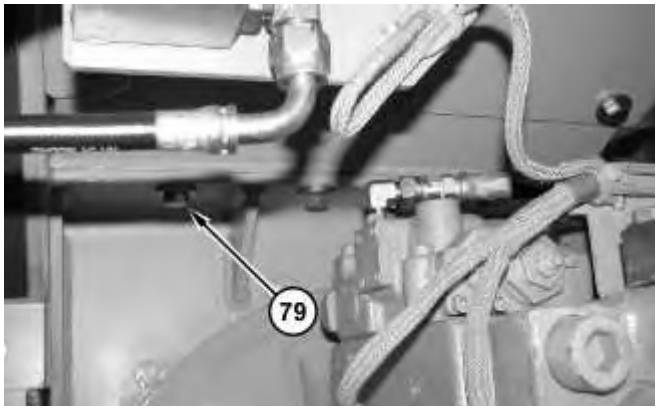

Illustration 23 g01212227

32. Install bolts (79).

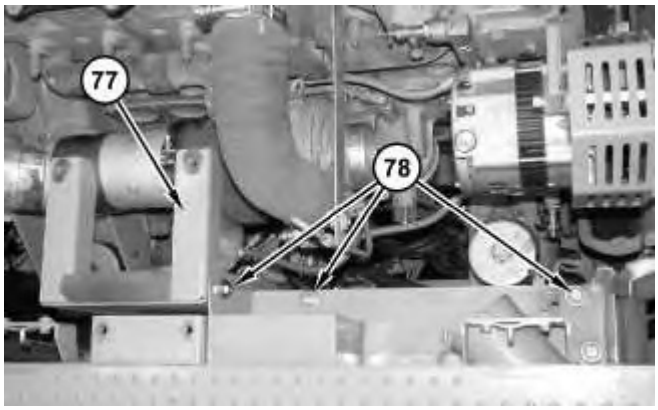

Illustration 24 g01212225

33. Install panel (77) and bolts (78).

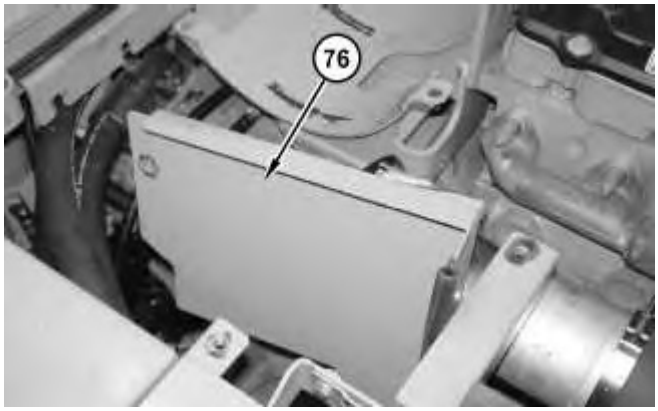

Illustration 25 g01212223

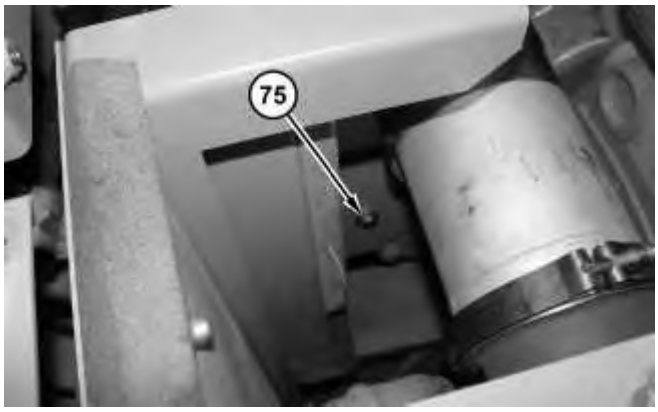

Illustration 26 g01212222

34. Install panel (76) and bolt (75).

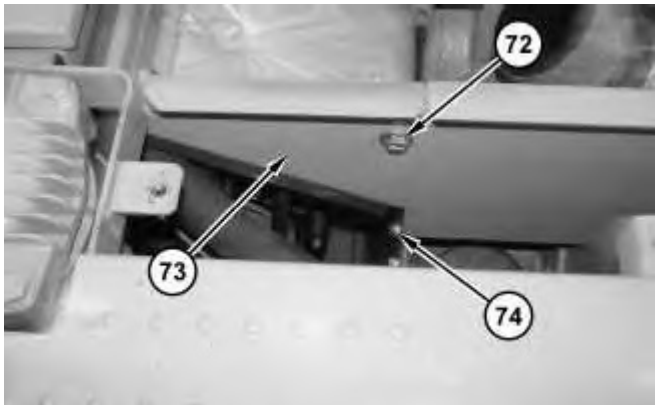

Illustration 27 g01212221

35. Install panel (73), bolts (74), and bolt (72).

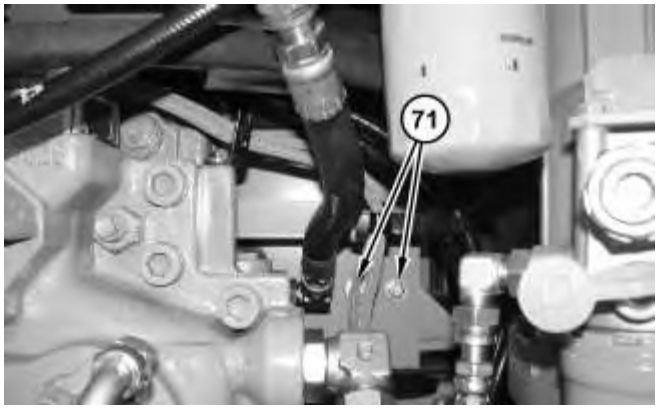

Illustration 28 g01212220

36. Install bolts (71).

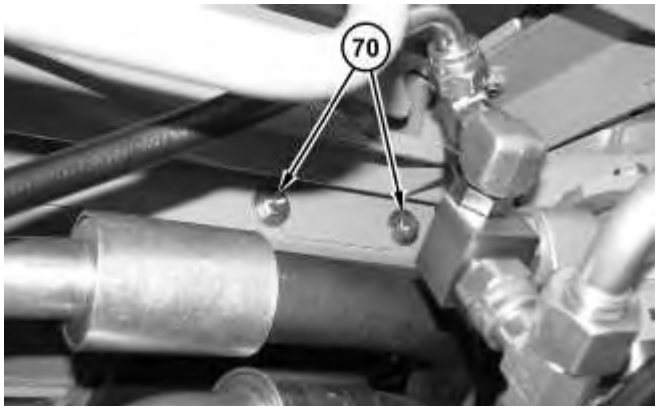

Illustration 29 g01212219

37. Install bolts (70).

Illustration 30 g01212218

38. Close door (69).

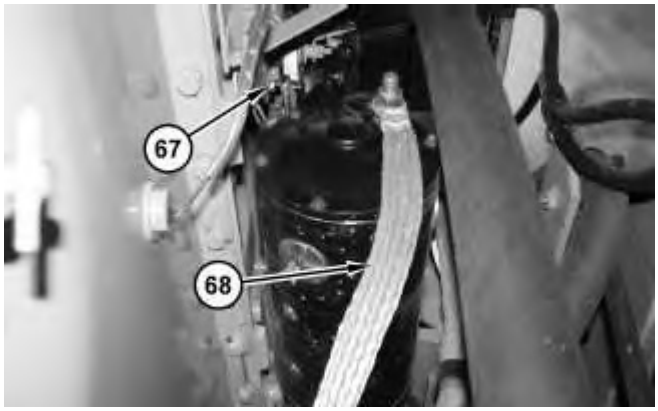

Illustration 31 g01212217

39. Connect harness assembly (67) and ground strap (68).

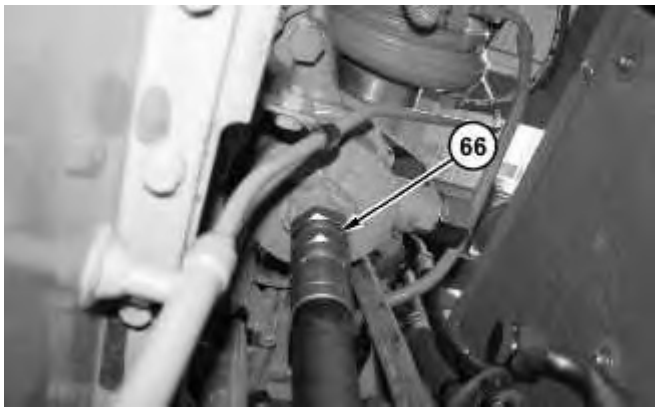

Illustration 32 g01212216

40. Connect hose assembly (66).

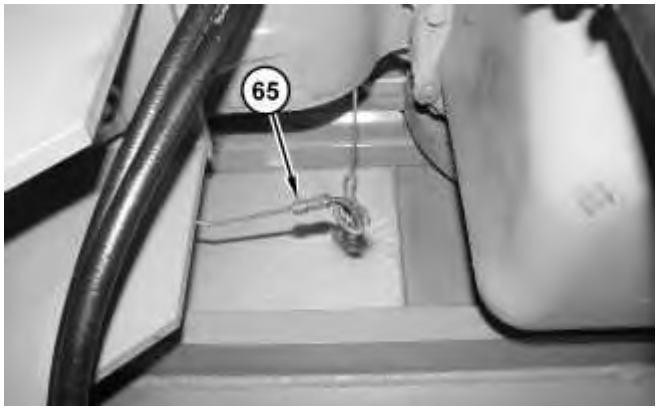

Illustration 33 g01212215

41. Connect tube assembly (65).

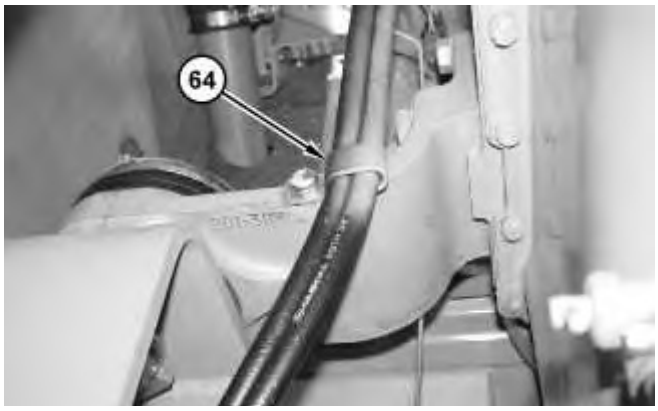

Illustration 34 g01212214

42. Connect clamp (64).

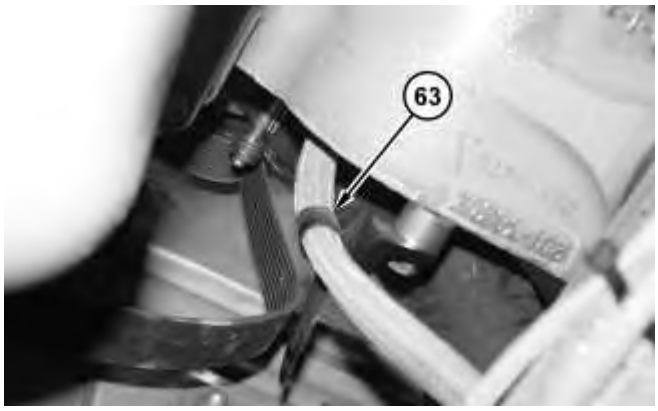

Illustration 35 g01212213

43. Connect clamp (63).

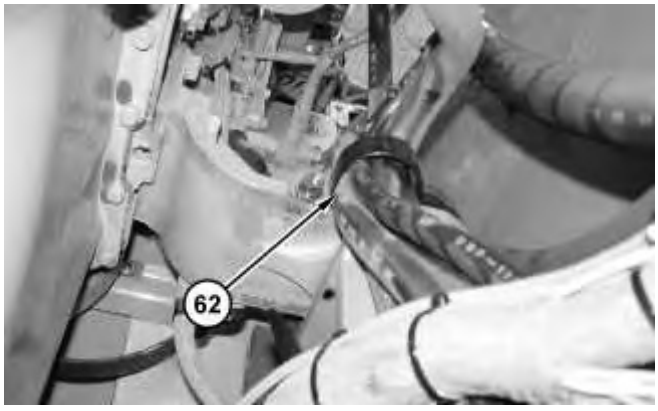

Illustration 36 g01212211

44. Connect clamp (62).

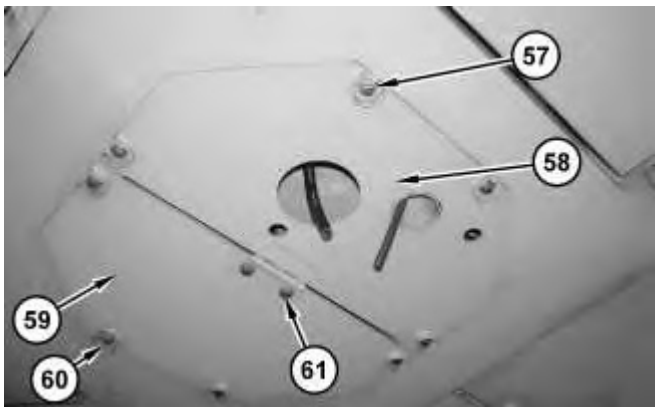

Illustration 37 g01212212

45. Install guard (59) and bolts (60).
46. Install guard (58) and bolts (57).
47. Install bolts (61).

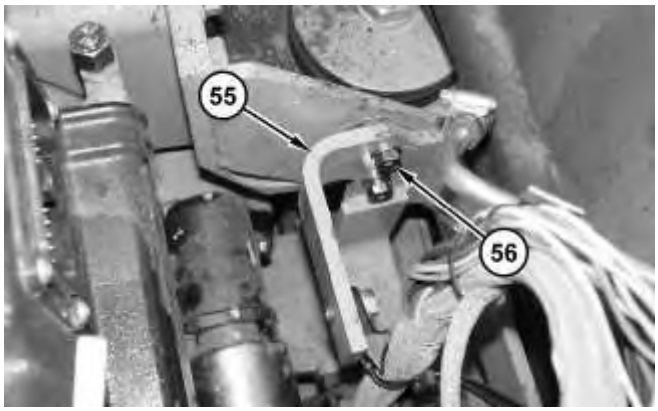

Illustration 38 g01212206

48. Install bracket (55) and bolts (56).

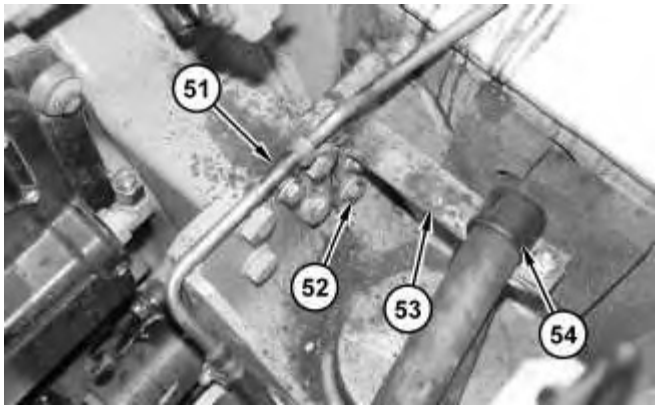

Illustration 39 g01212205

49. Install bracket (53) and bolts (52).
50. Connect clips (51) and (54).

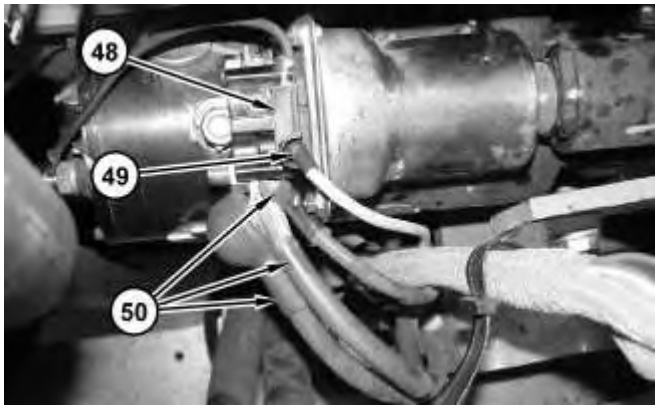

Illustration 40 g01212203

51. Connect cable assemblies (49) and (50). Install cover (48).

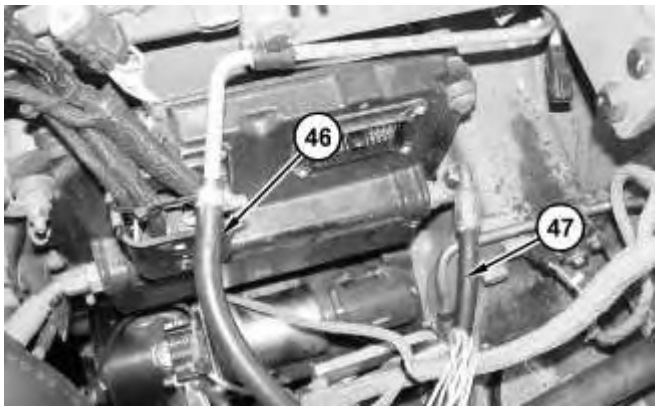

Illustration 41 g01212201

52. Connect hose assembly (47) and hose (46).

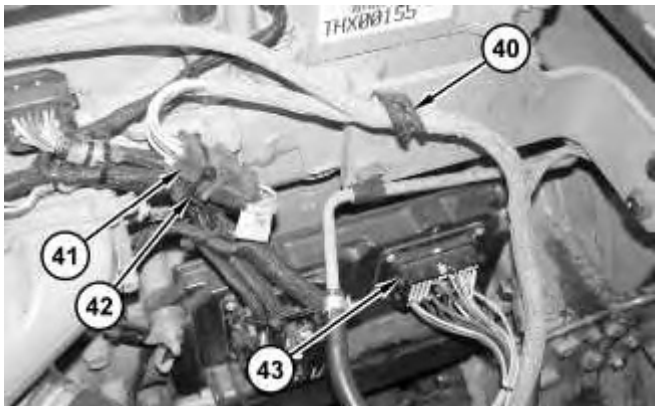

Illustration 42 g01212200

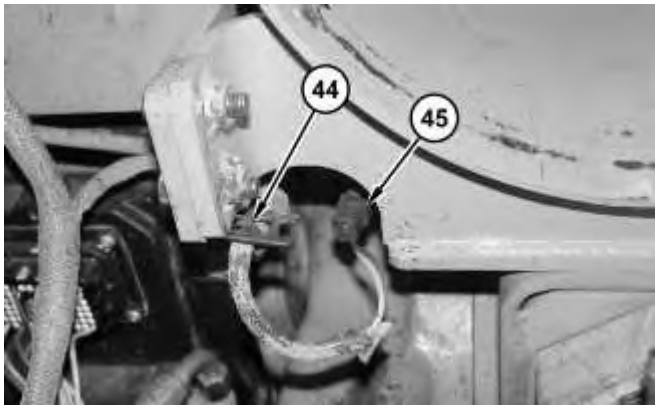

Illustration 43 g01212202

53. Connect harness assemblies (41), (43), and (45).

54. Install cable straps (40), (42), and (44).

Illustration 44 g01212199

55. Connect hose assemblies (38) and (39).

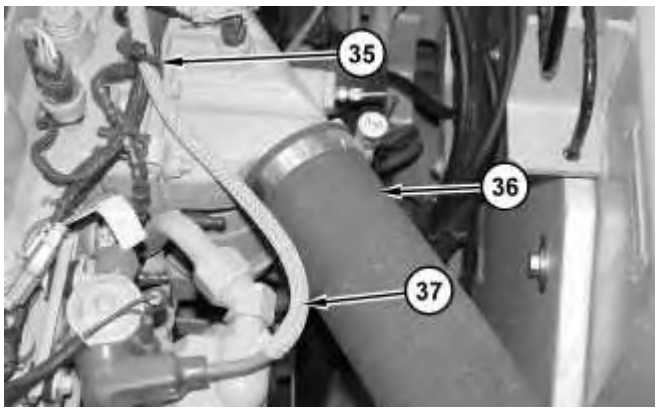

Illustration 45 g01212197

56. Connect hose (36).

57. Connect harness assembly (37) and install cable strap (35).

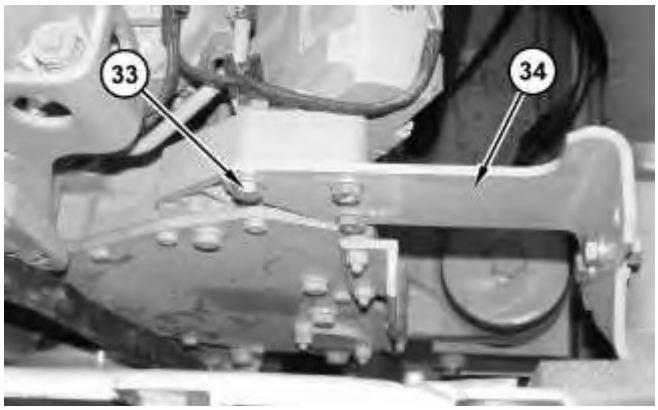

Illustration 46 g01212196

58. Install bracket assembly (34) and bolts (33).

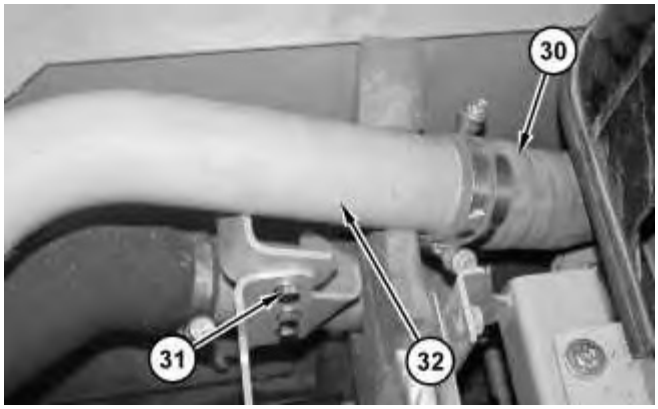

Illustration 47 g01212194

59. Position tube assembly (32) and install bolt (31).
60. Connect hose (30).

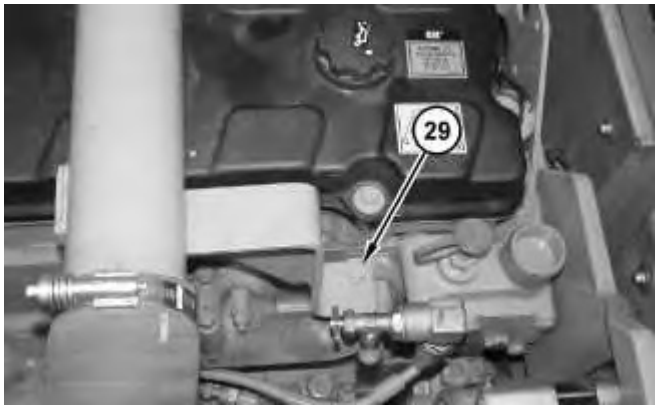

Illustration 48 g01212193

61. Install bolt (29).

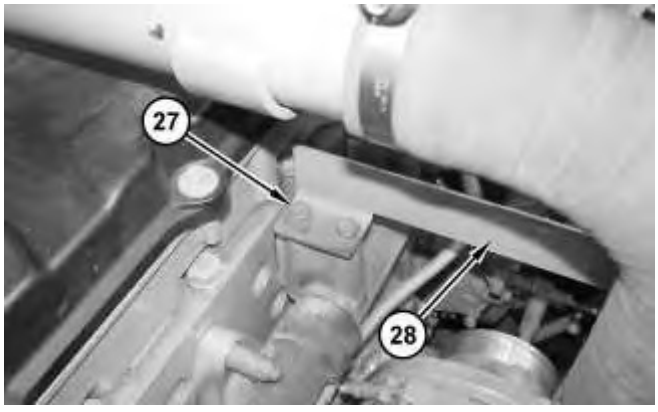

Illustration 49 g01212191

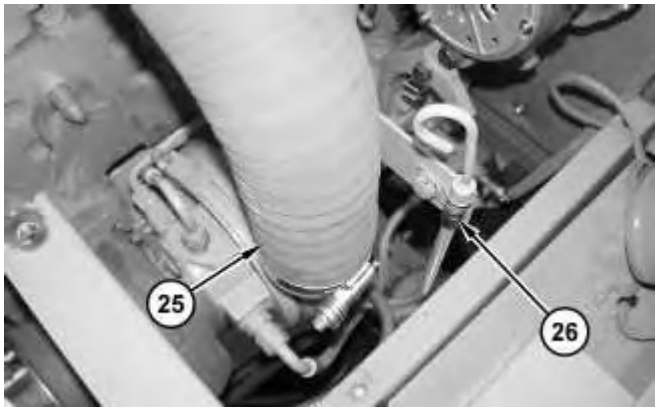

Illustration 50 g01212190

62. Install bracket (28) and bolts (27).
63. Install clip (26) and connect hose (25).

Illustration 51 g01212189

64. Connect hose assembly (24).

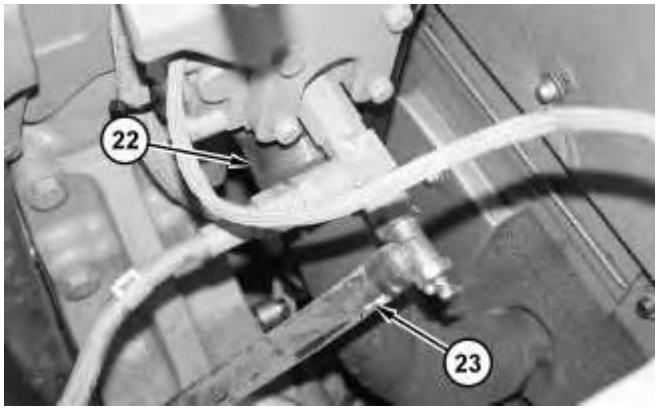

Illustration 52 g01212188

65. Connect hoses (22) and (23).

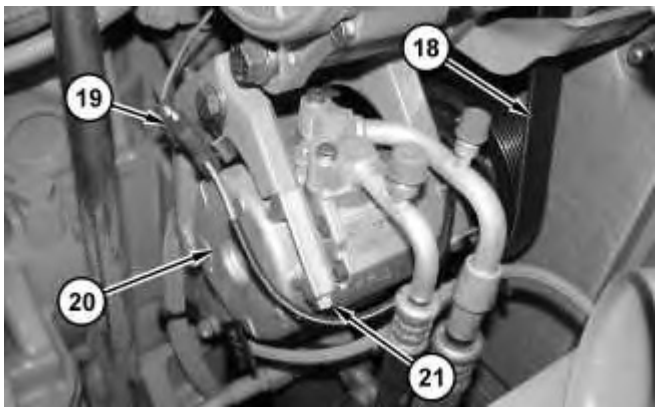

Illustration 53 g01212182

66. Position air conditioner compressor (20) and install bolts (21).

67. Connect harness assembly (19).

68. Install belt (18) onto air conditioner compressor (20). Refer to Operation and Maintenance Manual, "Inspect / Adjust / Replace".

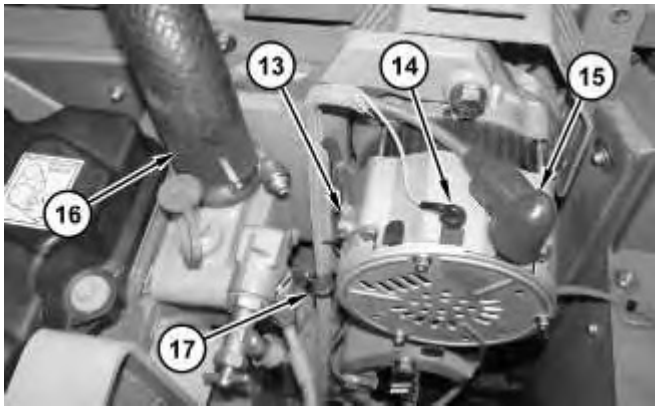

Illustration 54 g01212181

69. Connect harness assemblies (13), (14), and (15) and install cable strap (17).

70. Connect hose (16).

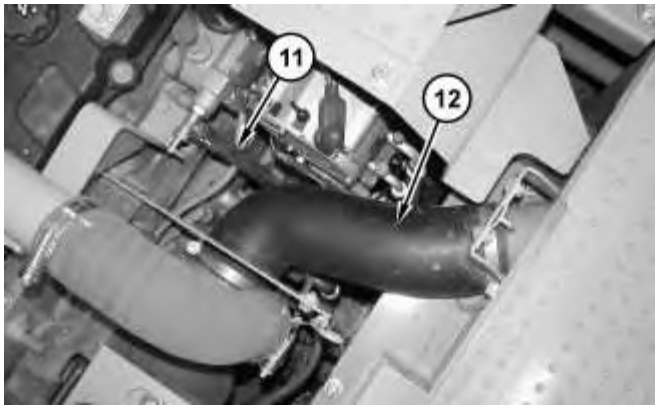

Illustration 55 g01212180

71. Install hose (12) and connect hose (11).

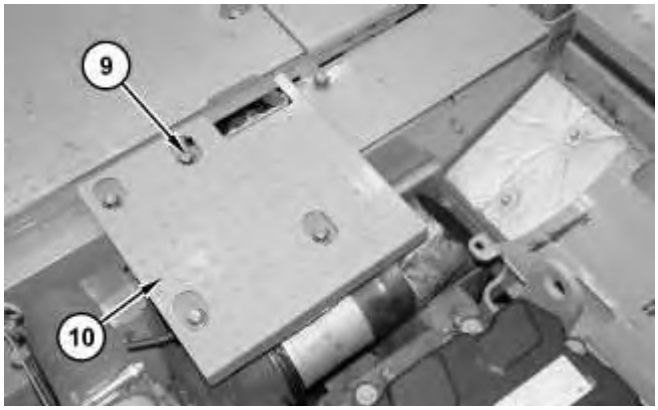

Illustration 56 g01212179

72. Install panel (10) and bolts (9).

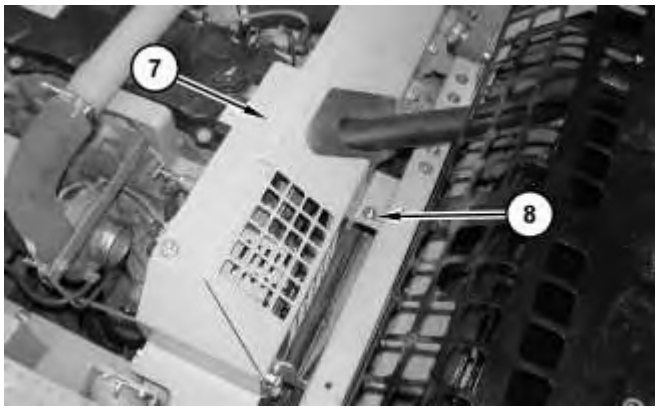

Illustration 57 g01212178

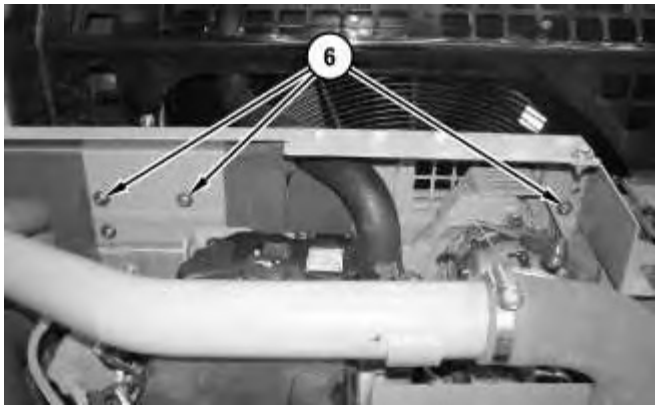

Illustration 58 g01212177

73. Install panel (7), bolts (8), and bolts (6).

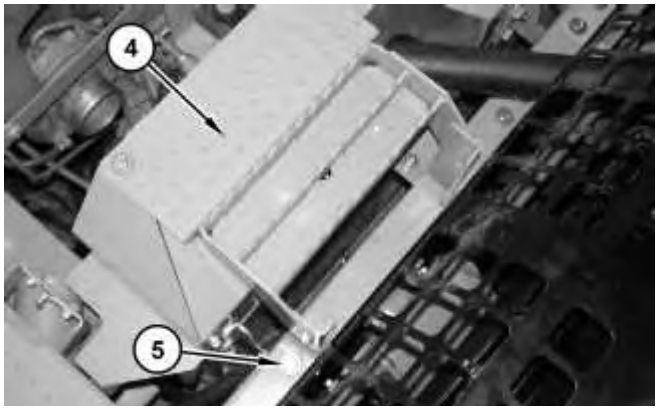

Illustration 59 g01212176

74. Install step (4) and bolts (5).

Illustration 60 g01212174

75. Open fuel shutoff (3).

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